

"Made available under NASA sponsorship  
in the interest of early and wide dis-  
semination of Earth Resources Survey  
Program information and without liability  
for any use made thereof."

MONTHLY REPORT, MAY 1974

Contract Number: NAS 9-13303

E7.4-10607  
CR-138716

## QUANTITATIVE DETERMINATION OF STRATOSPHERIC AEROSOL CHARACTERISTICS

We have successfully read a borrowed S192 data tape. We are eager to receive the actual S192 limb data. There will be minor additional software development on the S192 data to format the image in a limb view; for instance, a nadir viewing the data has undergone a 19:1 and 5:1 linear transformation that will need to be removed.

We have received the S191 calibration tapes and sample data tapes. We are in the process of debugging and modifying our program to read them.

The inversion of the Fredholm integral equation for Mie scattering by a distribution of particle sizes has been implemented and debugged on the Boeing computer system. In April we reported that we were testing the program that analytically inverts the limb brightness signature to a vertical profile of aerosol attenuation coefficients. Tests revealed a malfunction which requires math modifications and reprogramming. However, we are confident that the program will be functioning shortly.

(E7.4-10607) QUANTITATIVE DETERMINATION OF  
STRATOSPHERIC AEROSOL CHARACTERISTICS  
Monthly Report, May 1974 (Boeing Co.,  
Kent, Wash.) 1 p HC \$4.00 CSCL 04A

N74-28840

Unclass  
00607

G3/13